SDG COVER PAGE

Lab Name:	Alliance	Technical Grou	up, LLC	Contract:	68HERH20	D0011	
Lab Code:	ACE	Case No.:	51821	MA No.:			SDG No.: MJNKH1
SOW No. :	SFAM01.1						
					Analysis	s Method	
EPA Sample	e No.	Lab Sample I	Id I	CP-AES	ICP-MS	Mercury	Cyanide
MJNKH1		P5273-01			Х		
MJNKH1D		P5273-02			Х		
MJNKH1S		P5273-03			Х		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name:

Date:

Title:

Analysis Key: ICP-MS=CLP Metals (As, Cu, Pb, Zn)-Sedament Sample(s) to be used for Lab QC: MJNKC7 Tag 1319, MJNKH1 Tag 1363 USEPA CLP COC (LAB COPY) tiens/Reason Sample Identifier AirbillNo: 7707 2063 6449 CarrierName: FedEx DateShipped: 12/12/2024 MJNKH2 MJNKC7 MJNKH1 MJNKC9 **NUNKC8** MUNKCB MUNKCS MJNKCO MJNKB7 **MJNKB8** Relinquisted by (Signature and Organization) CLP Sample No. NUNKC5 MJNIGH2 MUNKH1 MJNKC9 MJNKC8 MJNKC7 MUNKC6 NUNKCO **WINKB8** MUNKB7 / Sedlinent/'SB Sediment/ SB Matrix/Sempler Sedment/SB Sediment/SB Sediment/ SB Sediment/SB Sediment SB Sediment/SB Sediment/ SB Sediment/ SB acops Grab Coll. Niethod Grad Grab Grab Grab Grab 9ab Grab Sap Grab 10/18-12-4 1415 Date/Time Analysis/Turnaround (Days) ICP-MS(21) ICP-MS(21) ICP-MS(21) **ICP-MS(21)** ICP-MS(21) ICP-MS(21) ICP-MS(21) ICP-NS(21) ICP-MS(21) ICP-MS(21) CHAIN OF CUSTODY RECORD 05434241 0543425 Case #: 51821 Cooler #: 13 Received by (Sign \cap Tag/Preservative/Bottles 1317 (< 8 C) (1) 1364 (< 5 C) (1) 1363 (< 6 C) (1) 1321 (< 8 C) (1) 1320 (< 6 C) (1) 1319 (< 6 C) (1) 1318 (< 8 C) (1) 1312 (< 6 C) (1) 1310 (< 6 C) (1) 1309 (< 6,C) (1) ture and Organization) Shipment for Case Complete? N Sumples Transferred From Clistic of Custody # 0UE-SS-NA1-0.00.33 0UE-SS-NA3-0UE-SS-NA3-0UE-SS-NA3-0UE-SS-NA3-0UE-SS-NA3-0UE-SS-NA3-0UE-SS-NA3-0U5-SS-NA4-0.0-0.33 006-SS-YB02-0.0-0.33-FD OUB-SS-YB02-0.0-0.33 0U6-SS-TR98-0.0-0.33 0U6-SS-TR88-0.0-0.33 0U8-SS-TR8A-0.0-0.33 12-13-24 Location Loso Loso . 12/11/2024 13:15 12/12/2024 08:15 12/12/2024 09:15 12/10/2024 14:15 12/10/2024 15:10 12/10/2024 15:10 12/10/2024 13:30 12/10/2024 14:50 12/11/2024 15:45 12/11/2024 12:15 Lab: Aliance Technical Group LLC Lab Contact: Mohammad Ahmed No: 10-121224-133129-0017 74.6-1-1 Sample Condition Upon Receipt R Collection Debuiltime radely Gal Tales Listi Phone: 908-728-3151 b Brok bas • For Lab Use Only 7 8 ç 4 į

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68HERH20D0011

SDG # MJNKH1

Page 1 of 3

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Allia	ance Technical Group	, LLC	0			Page 1 of	3	
Received By (Pr	int Name)	arca	- Rice			Log-in Date	e 12/13/2	2024
Received By (Si		/	fun					
Case Number	51821	SDG	No. MJNK	KH1		MA No. N/	Ά	
Remarks:						Correspondir	าต	
1. Custody Seal (s)	Present, Intact			Aqueous				Remarks: Condition
2. Custody Seal Nos.	0543424,0543425		EPA Sample #	Water Sample pH	Sam Tag		Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present	1	MJNKH1	N/A	1363		P5273-01	Intact
Custody Records		2	MJNKH1D	N/A	1363		P5273-02	Intact
4. Airbill		3	MJNKH1S	N/A	1363		P5273-03	Intact
4. ANDIN	Present	4	N/A	N/A	N/A		N/A	N/A
5. Airbill No. and	770720636449	5	N/A	N/A	N/A		N/A	N/A
Shipping Container ID No.	1	6	N/A	N/A	N/A		N/A	N/A
6 Shinning Containing		7	N/A	N/A	N/A		N/A	N/A
6. Shipping Container Temperature	Present	8	N/A	N/A	N/A		N/A	N/A
Indicator Bottle		9	N/A	N/A	N/A		N/A	N/A
7. Shipping Container	1.8 Degree C	10	N/A	N/A	N/A		N/A	N/A
Temperature		11	N/A	N/A	N/A		N/A	N/A
8. Sample	Intact	12	N/A	N/A	N/A	5	N/A	N/A
Condition		13	N/A	N/A	N/A		N/A	N/A
		14	N/A	N/A	N/A		N/A	N/A
9. Sample Tags Sample Tag	Absent	15	N/A	N/A	N/A		N/A	N/A
Numbers	Listed on Traffic	16	N/A	N/A	N/A		N/A	N/A
	Report	17	N/A	N/A	N/A		N/A	N/A
10. Does information on Traffic	Yes	18	N/A	N/A	N/A		N/A	N/A
Reports/Chain of Custody Records		19	N/A	N/A	N/A		N/A	N/A
and Sample Tags		20	N/A	N/A	N/A		N/A	N/A
agree ?		21	N/A	N/A	N/A		N/A	N/A
11. Date Received at Lab	12/13/2024	22	N/A	N/A	N/A		N/A	N/A
		23	N/A	N/A	N/A		N/A	N/A
12.Time Received	10:00							

* Contact SMO and attach record of resolution

Reviewed By	W ,	Logbook No.	N/A
Date	12 13 24	Logbook Page No.	N/A
	1011212		

FORM DC-2 COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Tech	nical Group, LLC	
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51821	SDG NO.	MJNKH1
MA NO.		SOW NO.	SFAM01.1

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE 1 FROM	<u>NOs:</u> TO	<u>CH</u> LAB	<u>ECK</u> REGION
1	SDG Cover Page	1	1	1	
	Traffic Report/Chain of Custody Record(s)		2		
	Sample Log-In Sheet (DC-1)	3	3		
	CSF Inventory Sheet (DC-2)	·	6		
	SDG Narrative		9		
	Communication Logs	NA	NA	· ·	
	Percent Solids Log	10	11		
	rereent borrab hog		<u> </u>		
Ana	lysis Forms and Data (ICP-AES)				
8.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
9.	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	NA	NA	-	
		·			
	er Data				
	Standard and Reagent Preparation Logs	NA	NA	<u> </u>	
11.	Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12.	Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA		
13.	Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14.	Extraction Logs for TCLP and SPLP	NA	NA	1	
15.	Raw GPC Data	NA	NA	✓	
16.	Raw Florisil Data	NA	NA	✓	
Ana	Lysis Forms and Data (ICP-MS)				
17.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	12	12	_	
18.	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	13	429	✓	
Oth	er Data				
	Standard and Reagent Preparation Logs	430	562	✓	
20.	Original Preparation and Cleanup forms or copies of Preparation and	563	564	✓	
21.	Cleanup Logbooks Original Analysis or Instrument Run forms or copies of Analysis or	565	569	✓	
22.	Instrument Logbooks Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

23. Extraction Logs for TCLF and SPLP TO LAB REGION 24. Raw GPC Data NA NA NA NA NA 25. Raw Florisil Data NA NA NA V		PAGE N	10s:	CH	IECK
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25. Raw Florisil Data NA NA NA Analysis Forms and Data (Mercury) 26. Sample analysis, laboratory QC as applicable NA NA ✓ 27. Instrument raw data by instrument in analysis order NA NA ✓ 27. Instrument raw data by instrument in analysis order NA NA ✓ 28. Standard and Reagent Preparation Logs NA NA ✓ 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA ✓ 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA ✓ 31. Performance Evaluation (FE)/Proficiency Testing (FT) Sample Instructions NA NA ✓ 32. Extraction Logs for TCLP and SPLP NA NA ✓ 33. Raw GPC Data NA NA ✓ 34. Raw Florisil Data NA ✓ ✓ 35. Sample Analysis, Laboratory QC as applicable NA NA ✓ 36. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks ✓ ✓ ✓ 37. Standard and Reagent Preparation Logs NA ✓ ✓ ✓	23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
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26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA	25. Raw Florisil Data	NA	NA	✓	
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30. Original Analysis or Instrument Run forms or copies of Analysis or NA NA<		NA	NA	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 32. Extraction Logs for TCLP and SPLP NA NA NA NA 33. Raw GPC Data NA NA NA NA NA 34. Raw Florisil Data NA NA NA NA NA Analysis Forms and Data (Cyanide) Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA 36. Instrument raw data by instrument in analysis order NA NA NA Other Data 33. Original Analysis or Instrument Run forms or copies of Preparation and Cleanup Logbooks NA NA 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA 41. Extraction Logs for TCLP and SPLP NA NA 42. Raw GPC Data NA NA	30. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
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34. Raw Florisil Data NA NA NA Analysis Forms and Data (Cyanide) 35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA ✓ 36. Instrument raw data by instrument in analysis order NA NA ✓		NA	NA	_ ✓	
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40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ 1. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
41. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
		NA	NA		
43. Raw Florisil Data NA NA 🖌	42. Raw GPC Data	NA	NA	✓	
	43. Raw Florisil Data	NA	NA	✓	

				PAGE N	10s:	CH	ECK
				FROM	ТО	LAB	REGION
	itional EPA Shippi	ng/Receiving Documents					
	Airbill (N	o. of Shipments <u>1</u>)		570	570	✓	
	Sample Tag	s		NA	NA	✓	
	Sample Log	-In Sheet (Lab)		571	571	✓	
45.	Misc. Ship	ping/Receiving Records(list all indi	vidual records)	NA	NA	√	
							·
46.	Internal L (describe	ab Sample Transfer Records and Track or list)	ing Sheets	572	572	✓	
47.	Other Reco (describe	rds and related Communication Logs or list)					
				NA	NA	√	·
48.	Comments:						
	npleted by: LP Lab)	(Signature)	Nimisha Pandya, Doc (Print Name & Titl		Officer	(Dat	-e)
	dited by: PA)						
		(Signature)	(Print Name & Titl	e)		(Dat	te)



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MJNKH1 CASE # 51821 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P5273

A. Number of Samples and Date of Receipt

01 Soil samples was delivered to the laboratory intact on 12/13/2024

B. Parameters

Test requested for Metals CLP4 MS = Arsenic, Copper, Lead, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 1.8°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from $\mu g / L$ or ppb to mg/kg :



284 Sheffield Street Mountainside, NJ 07092

Concentration (mg/kg) = $C \times Vf = Vf = VF / 1000$ W x S

Where,

C = Instrument value in ppb (The average of all replicate integrations)
 Vf = Final digestion volume (mL)
 W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
 S = % Solids / 100 (Fraction of Percent Solids)
 DF = Dilution Factor

Example Calculation For Sample MJNKH1 For Arsenic:

If C = 88.33 ppb
Vf = 500 ml
W = 1.49 g
S = 0.685(68.5/100)
DF = 1
Concentration (mg/kg) =
$$88.33 \text{ x} \cdot \frac{500}{1.49 \text{ x} 0.685} \text{ x} 1 / 1000$$

= 43.2714 mg/kg

H. QA/QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

= 43 mg/kg (Reported Result with Signification)

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Target Analyte	Associated Internal Standard
Arsenic	89Y
Copper	45Sc
Lead	209Bi
Zinc	45Sc

Internal Standard Association for ICP-MS analysis.



284 Sheffield Street Mountainside, NJ 07092

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature_____

Name: Nimisha Pandya

Date _____

Title: Document Control Officer



OVENTEMP IN Celsius(°C): 107

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

Time IN: 14:50

PERCENT SOLID

Supervisor: Iwona Analyst: jignesh **Date:** 12/19/2024

Time OUT: 07:45

Out Date: 12/19/2024

OVENTEMP OUT Celsius(°C): 103 **In Date:** 12/18/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

oc:LB133992

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P5272-01	MJNKJ6	1	1.15	8.83	9.98	3.99	32.2	
P5272-02	MJNKJ7	2	1.15	8.64	9.79	9.26	93.9	
P5272-03	MJNKJ8	3	1.14	8.82	9.96	4.71	40.5	
P5272-04	MJNKJ9	4	1.12	8.86	9.98	6.52	60.9	
P5272-05	MJNKJ9D	5	1.12	8.86	9.98	6.52	60.9	
P5272-06	MJNKJ9S	6	1.12	8.86	9.98	6.52	60.9	
P5272-07	MJNKKO	7	1.18	8.78	9.96	6.34	58.8	
P5272-08	MJNKK1	8	1.15	8.38	9.53	4.51	40.1	
P5272-09	MJNKK2	9	1.12	8.83	9.95	4.12	34.0	
P5273-01	MJNKH1	10	1.14	8.85	9.99	7.2	68.5	
P5273-02	MJNKH1D	11	1.14	8.85	9.99	7.2	68.5	
P5273-03	MJNKH1S	12	1.14	8.85	9.99	7.2	68.5	

% Solid = $\frac{(C-A) * 100}{(B-A)}$

Chain)
Internal
Hardcopy
VORKLIST (

WorkList Name: %1-p5272

2013992 .

	WorkList Name :	%1-p5272	WorkList ID :	ID: 186442	Department :	Wet-Chemistry	-		
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